LightLab INTERNATIONAL ALLENTOWN LLC

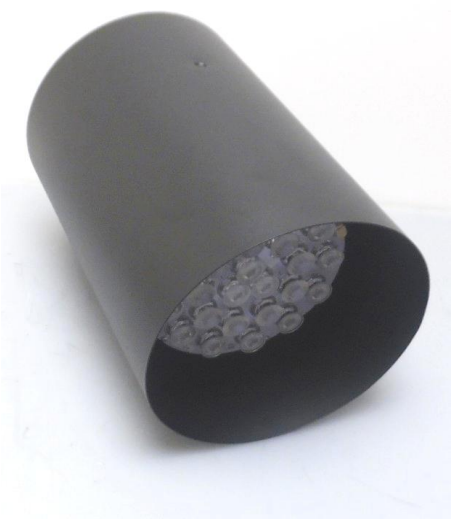
NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA003089-024

Indoor Distribution Photometry Test Report

Catalog Number: AX-150-30-54-D-B-M-N-515-R-N
Pendant/highbay mounted, spun black aluminum outer housing,
extruded aluminum heatsink and formed aluminum frame, no enclosure.
24 white LEDs with clear and frosted plastic optics below each.
One MeanWell XLG-200-24-A LED driver



Prepared For:
Aquarii
6805 Newbrook Avenue
East Syracuse, NY 13057, USA

Performance Summary					
Input Voltage	120.0	Vac	Luminous Flux	10966.3	Lumens
Input Current	1.017	A	Total Efficacy	90.4	Lm/W
Input Power	121.3	W	Downward Flux	10966.3	Lumens
Frequency	60.00	Hz	Downward Flux	100.0	% of Total
Power Factor	0.994				
Current THD	4.7	%			

This test report was issued by LightLab International Allentown, LLC without alterations or erasures.

Test date: 09/23/2026
Report date: 09/25/2026

Signed: Michael L. Grather Digitally signed by Michael L. Grather Date: 2026.09.25 16:06:12 -04'00'

North America (issuing laboratory)
LightLab International Allentown, LLC
905 Harrison Street, Suite 135
Allentown, PA 18103 USA
Ph: +1 484-273-0705
Fx: +1 484-209-5779
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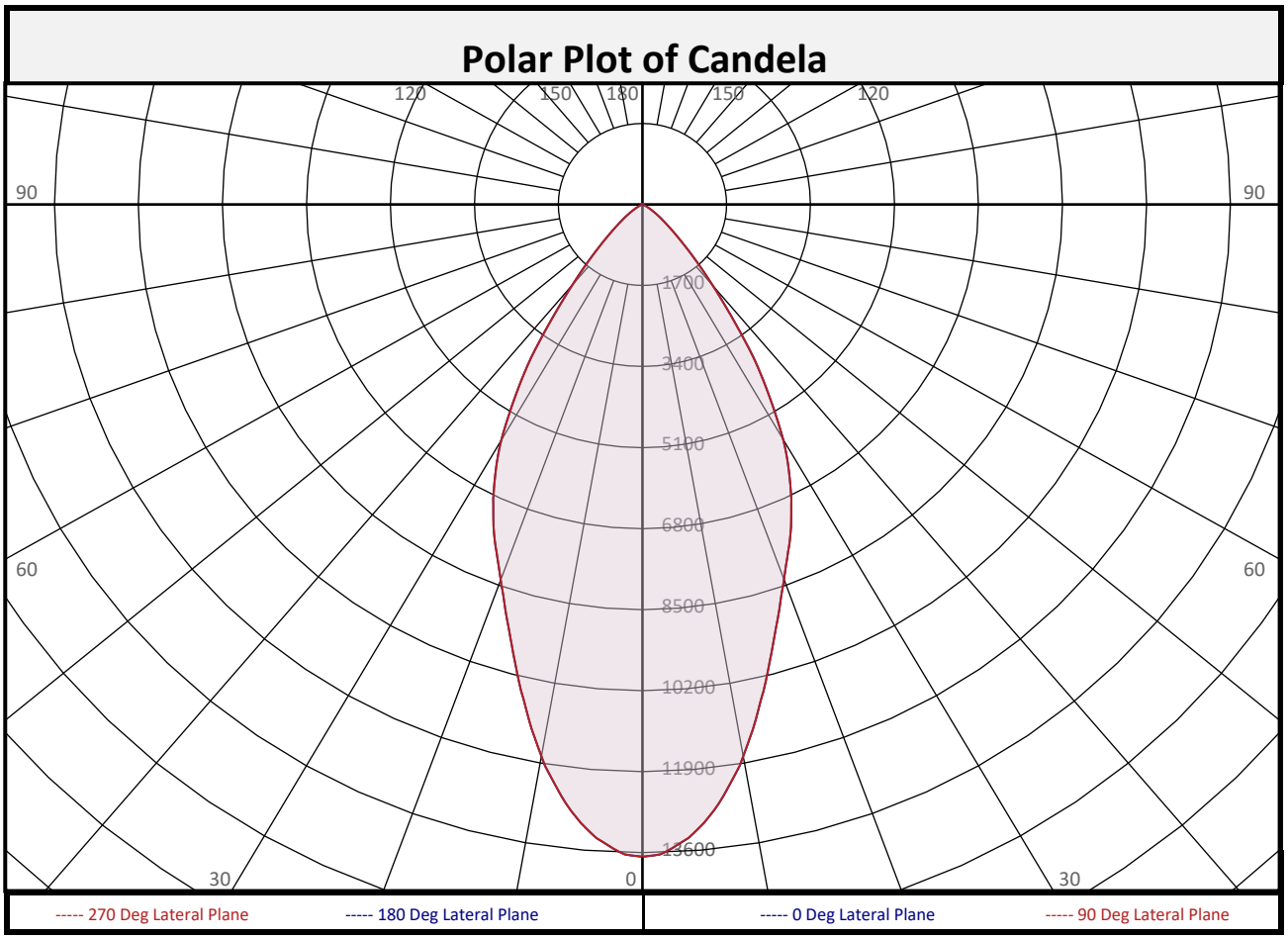
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Zonal Flux Summary

Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	1210	11.0%	90-100	0.0	0.0%	0-20	3990	36.4%
10-20	2780	25.3%	100-110	0.0	0.0%	0-30	7240	66.0%
20-30	3250	29.6%	110-120	0.0	0.0%	0-40	9645	87.9%
30-40	2405	21.9%	120-130	0.0	0.0%	0-60	10898	99.4%
40-50	953.4	8.7%	130-140	0.0	0.0%	0-80	10965	100.0%
50-60	299.7	2.7%	140-150	0.0	0.0%	10-90	9756	89.0%
60-70	58.7	0.5%	150-160	0.0	0.0%	20-50	6608	60.3%
70-80	7.8	0.1%	160-170	0.0	0.0%	40-90	1321	12.1%
80-90	1.8	0.0%	170-180	0.0	0.0%	60-90	68.3	0.6%
0-90	10966	100.0%	90-180	0.0	0.0%	0-180	10966	100.0%

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LLIA003089-024

Luminous Intensity (Candela) Table

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	Lateral (C-Plane) Angles									
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	13686	13686	13686	13686	13686	13686	13686	13686	13686
2.5	13528	13528	13528	13528	13528	13528	13528	13528	13528
5	13134	13134	13134	13134	13134	13134	13134	13134	13134
7.5	12528	12528	12528	12528	12528	12528	12528	12528	12528
10	11758	11758	11758	11758	11758	11758	11758	11758	11758
12.5	10856	10856	10856	10856	10856	10856	10856	10856	10856
15	9949	9949	9949	9949	9949	9949	9949	9949	9949
17.5	9115	9115	9115	9115	9115	9115	9115	9115	9115
20	8381	8381	8381	8381	8381	8381	8381	8381	8381
22.5	7763	7763	7763	7763	7763	7763	7763	7763	7763
25	7135	7135	7135	7135	7135	7135	7135	7135	7135
27.5	6458	6458	6458	6458	6458	6458	6458	6458	6458
30	5707	5707	5707	5707	5707	5707	5707	5707	5707
32.5	4798	4798	4798	4798	4798	4798	4798	4798	4798
35	3926	3926	3926	3926	3926	3926	3926	3926	3926
37.5	2962	2962	2962	2962	2962	2962	2962	2962	2962
40	2203	2203	2203	2203	2203	2203	2203	2203	2203
42.5	1622	1622	1622	1622	1622	1622	1622	1622	1622
45	1170	1170	1170	1170	1170	1170	1170	1170	1170
47.5	849	849	849	849	849	849	849	849	849
50	617	617	617	617	617	617	617	617	617
52.5	453	453	453	453	453	453	453	453	453
55	318	318	318	318	318	318	318	318	318
57.5	217	217	217	217	217	217	217	217	217
60	143	143	143	143	143	143	143	143	143
62.5	92	92	92	92	92	92	92	92	92
65	53	53	53	53	53	53	53	53	53
67.5	23	23	23	23	23	23	23	23	23
70	11	11	11	11	11	11	11	11	11
72.5	9	9	9	9	9	9	9	9	9
75	7	7	7	7	7	7	7	7	7
77.5	6	6	6	6	6	6	6	6	6
80	4	4	4	4	4	4	4	4	4
82.5	3	3	3	3	3	3	3	3	3
85	2	2	2	2	2	2	2	2	2
87.5	1	1	1	1	1	1	1	1	1
90	0	0	0	0	0	0	0	0	0

16 lateral half-planes of data were acquired, 22.5 degree increments shown.

Report of Test

LLIA003089-024

Luminous Intensity (Candela) Table

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	Lateral (C-Plane) Angles									
		0	22.5	45	67.5	90	112.5	135	157.5	180
	90	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0
	102.5	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0
	107.5	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0
	112.5	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0
	117.5	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0
	122.5	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0
	127.5	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0
	132.5	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0
	137.5	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0
	142.5	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0
	147.5	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0
	152.5	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0
	157.5	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0
	162.5	0	0	0	0	0	0	0	0	0
	165	0	0	0	0	0	0	0	0	0
	167.5	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0
	172.5	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0
	177.5	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0

16 lateral half-planes of data were acquired, 22.5 degree increments shown.

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LLIA003089-024

Coefficients of Utilization/Room Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80					70					50				30				10			0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10	0
RCR																						
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102	100
1	113	110	108	106		111	108	106	104		104	102	101		101	99	98		97	96	95	93
2	107	102	98	95		105	101	97	94		97	94	92		94	92	90		92	90	88	86
3	102	95	90	86		100	94	89	85		91	87	84		89	85	82		86	84	81	80
4	96	89	83	78		95	87	82	78		85	81	77		83	79	76		81	78	75	74
5	91	83	77	72		90	82	76	72		80	75	71		78	74	71		77	73	70	68
6	86	77	71	67		85	76	71	66		75	70	66		74	69	66		72	68	65	64
7	82	72	66	62		81	72	66	62		70	65	61		69	65	61		68	64	61	59
8	78	68	62	58		77	68	62	58		66	61	57		65	61	57		64	60	57	55
9	74	64	58	54		73	64	58	54		63	57	54		62	57	54		61	57	53	52
10	71	61	55	51		70	60	54	51		59	54	50		59	54	50		58	53	50	49

For absolute test reports, RUs are expressed as a percentage of total lumen output. For relative test reports, CUs are expressed as a percentage of total lamp output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Ground-level distance to half-of-nadir illuminance (ft) 0-180 deg	90-270 deg
6.0	380.2	4.44	4.44
8.0	213.8	5.92	5.92
10.0	136.9	7.40	7.40
12.0	95.0	8.88	8.88
14.0	69.8	10.36	10.36
16.0	53.5	11.84	11.84

Spacing Criterion

SC: 0.7

Average Luminance (cd/m^2)

	0 deg Plane	45 deg Plane	90 deg Plane
0	291560	291560	291560
45	35260	35260	35260
55	11816	11816	11816
65	2653	2653	2653
75	609	609	609
85	377	377	377

Beam and Field Angle

0-180 Degree Plane

Beam Angle: 52.3°

Field Angle: 87.7°

90-270 Degree Plane

Beam Angle: 52.3°

Field Angle: 87.7°

Report of Test

LLIA003089-024

UGR Table - Corrected

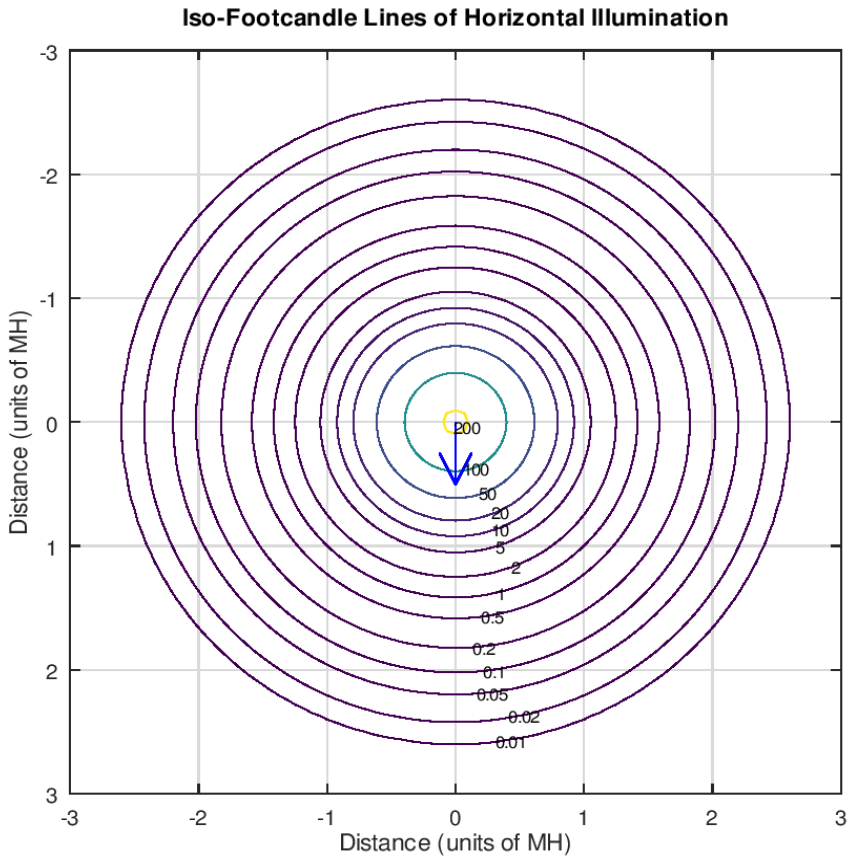
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.1	13.1	12.4	13.4	13.8	12.1	13.1	12.4	13.4	13.8
	3H	11.9	12.8	12.3	13.2	13.5	11.9	12.8	12.3	13.2	13.5
	4H	11.8	12.7	12.3	13.0	13.4	11.8	12.7	12.3	13.0	13.4
	6H	11.8	12.5	12.2	12.9	13.3	11.8	12.5	12.2	12.9	13.3
	8H	11.7	12.4	12.1	12.8	13.2	11.7	12.4	12.1	12.8	13.2
	12H	11.6	12.3	12.1	12.7	13.2	11.6	12.3	12.1	12.7	13.2
4H	2H	11.9	12.8	12.3	13.1	13.5	11.9	12.8	12.3	13.1	13.5
	3H	11.8	12.4	12.2	12.9	13.3	11.8	12.4	12.2	12.9	13.3
	4H	11.7	12.3	12.1	12.7	13.1	11.7	12.3	12.1	12.7	13.1
	6H	11.6	12.1	12.0	12.5	13.0	11.6	12.1	12.0	12.5	13.0
	8H	11.5	12.0	12.0	12.4	12.9	11.5	12.0	12.0	12.4	12.9
	12H	11.5	11.9	11.9	12.4	12.8	11.5	11.9	11.9	12.4	12.8
8H	4H	11.5	12.0	12.0	12.4	12.9	11.5	12.0	12.0	12.4	12.9
	6H	11.4	11.8	11.9	12.3	12.8	11.4	11.8	11.9	12.3	12.8
	8H	11.3	11.7	11.9	12.2	12.7	11.3	11.7	11.9	12.2	12.7
	12H	11.3	11.6	11.8	12.1	12.7	11.3	11.6	11.8	12.1	12.7
12H	4H	11.4	11.9	11.9	12.3	12.8	11.4	11.9	11.9	12.3	12.8
	6H	11.3	11.7	11.9	12.1	12.7	11.3	11.7	11.9	12.1	12.7
	8H	11.3	11.6	11.8	12.1	12.7	11.3	11.6	11.8	12.1	12.7

Maximum UGR = 13.8

Report of Test

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Iso-Illuminance Plot

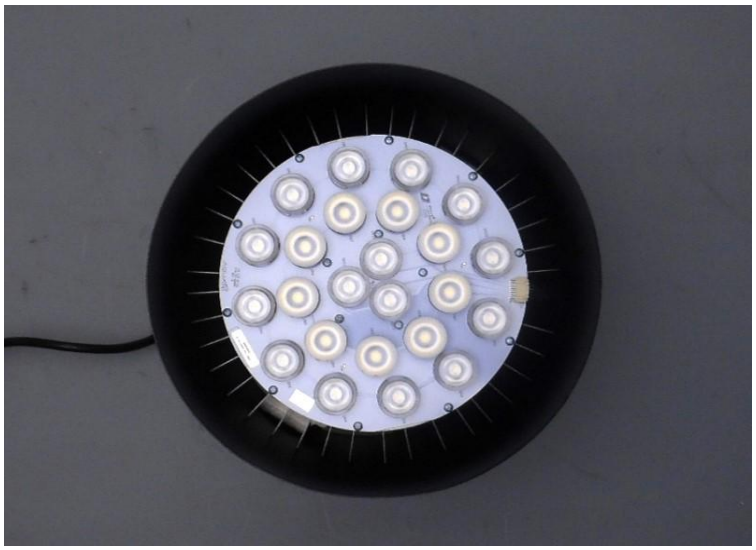


The isofootcandle values shown in the plot above are based on a mounting height of h = 8.0 feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution of room reflections.

Report of Test

LLIA003089-024

Additional Pictures of Test Subject





Report of Test

LLIA003089-024

Test Distance	9.5 m
Ambient Temperature	25.3 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of IES LM-79-24. Format of reports and angular increments based on IES LM-41-20 and LM-46-20.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE C-Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with ‡ are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.